

(FILE 'HOME' ENTERED AT 13:02:27 ON 08 AUG 2003)

FILE 'REGISTRY' ENTERED AT 13:03:27 ON 08 AUG 2003

L1 0 S HEXENE/C
L2 4 S HEXENE/CN

FILE 'CAPLUS, USPATFULL' ENTERED AT 13:04:46 ON 08 AUG 2003

L3 10992 S L2
L4 2799 S L3 AND MIXTURE
L5 948 S L4 AND BY WEIGHT
L6 361 S L5 AND LINEAR
L7 229 S L6 AND ALCOHOL
L8 33 S L7 AND SURFACTANT
L9 17 S L8 AND DIMER?
L10 5 S L9 AND OLEFIN MIXTURE
L11 12 S L9 NOT L10
L12 12 DUP REM L11 (0 DUPLICATES REMOVED)
L13 0 S L12 AND HEXENE ISOMERS
L14 1088 S LINEAR (P) HEXENE (P) BY WEIGHT
L15 97 S L14 AND DIMER?
L16 40 S L15 AND SURFACTANT
L17 38 S L16 AND ALCOHOL
L18 36 S L17 NOT L9
L19 27 S L18 AND OLEFIN
L20 27 S L19 AND MIXTURE
L21 27 DUP REM L20 (0 DUPLICATES REMOVED)
L22 23 S L21 AND ETHER
L23 0 S L22 AND OLEFIN MIXTURE

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L10 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2000:645959 CAPLUS
 DN 133:239738
 TI **Surfactant alcohols**, their production and their use
 and **olefin mixtures** therefor
 IN Maas, Heiko; Roper, Michael; Walter, Marc; Schulz, Ralf; Tropsch, Jurgen;
 Jager, Hans-Ulrich
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000053547	A1	20000914	WO 2000-EP1935	20000306
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19910370	A1	20000914	DE 1999-19910370	19990309
EP 1159237	A1	20011205	EP 2000-909324	20000306
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002539095	T2	20021119	JP 2000-603990	20000306
US 6566566	B1	20030520	US 2001-936183	20010910
PRAI DE 1999-19910370	A	19990309		
WO 2000-EP1935	W	20000306		

OS MARPAT 133:239738
 AB The invention relates to a method of prepg. surface-active **alcs.**
 and surface-active **alc.** ethers which are well suited for use as
 surface-active agents or for the prepn. of surface-active agents. To this
 end, **olefin mixts.** contg. a predominant share of
 branched dodecenes (prepd. from **olefin mixts.** contg.
 less than 30 % by wt. **linear** hexene isomers using a
 catalyst contg. nickel) are derivatized to form surface-active
alcs. which are then possibly alkoxyated. The invention also
 relates to the use of said surface-active **alcs.** and
 surface-active **alc.** ethers for the prepn. of surface-active
 agents by glycosidation or polyglycosidation, sulfation, or phosphation.
 In an example, a **mixt.** of of methylpentenes 71, hexenes 22, and
 dimethylbutenes 7% was **dimerized** over a catalyst contg. 50% NiO
 to give a dodecene **mixt.** which was then hydroformylated and
 reduced to give a **mixt.** of C13-primary **alcs.** The
alc. mixt. could then be ethoxylated, phosphated, or
 sulfated and the ethoxylate could also be sulfated or phosphated to give
surfactants.

RE. CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 5 USPATFULL on STN
 AN 2003:137180 USPATFULL
 TI Process for the preparation of **surfactant alcohols**
 and **surfactant alcohol** ethers, the prepared products
 and their use
 IN Maas, Heiko, Schifferstadt, GERMANY, FEDERAL REPUBLIC OF
 Roper, Michael, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
 Walter, Marc, Frankenthal, GERMANY, FEDERAL REPUBLIC OF

Schulz, Ralf, Speyer, GERMANY, FEDERAL REPUBLIC OF
Tropsch, Jurgen, Romerberg, GERMANY, FEDERAL REPUBLIC OF
Jager, Hans-Ulrich, Neustadt, GERMANY, FEDERAL REPUBLIC OF
PA BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
(non-U.S. corporation)

PI US 6566566 B1 20030520
WO 2000053547 20000914
AI US 2001-936183 20010910 (9)
WO 2000-EP1935 20000306
PRAI DE 1999-19910370 19990309

DT Utility

FS GRANTED

EXNAM Primary Examiner: Davis, Brian

LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

CLMN Number of Claims: 11

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 815

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention describes a process for the preparation of **surfactant alcohols** and **surfactant alcohol** ethers which are, inter alia, highly suitable as **surfactants** or for the preparation of **surfactants**. The process, starting from **olefin mixtures** which comprise less than 30% by **weight** of **linear** hexene isomers and utilizing a catalyst which contains nickel, prepares **olefin mixtures** having a predominant fraction of branched dodecenes, which are subsequently derivatized to give **surfactant alcohols** and then optionally alkoxyated.

The invention further relates to the use of the **surfactant alcohols** and **surfactant alcohol** ethers for the preparation of **surfactants** by glycosidation or polyglycosidation, sulfation or phosphation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 5 USPATFULL on STN

AN 93:22909 USPATFULL

TI Detergent grade to C.sub.10 to C.sub.28 olefins, (C.sub.10 to C.sub.28 alkyl) benzenes and (C.sub.10 to C.sub.28 alkyl) benzene sulfonates and process for preparing same using a phosphite containing catalyst

IN Threlkel, Richard S., Albany, CA, United States

Kurkov, Victor P., San Rafael, CA, United States

PA Chevron Research & Technology Company, San Francisco, CA, United States
(U.S. corporation)

PI US 5196625 19930323

AI US 1992-880473 19920506 (7)

RLI Continuation of Ser. No. US 1990-515956, filed on 27 Apr 1990, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Garvin, Patrick P.; Assistant Examiner: Peebles, Brent M.

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 816

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A **dimerization** process for producing **linear** and/or mono-branched C.sub.10 to C.sub.28 olefins using **dimerization** catalysts and new C.sub.10 to C.sub.28 **olefins mixtures** are disclosed. The C.sub.10 to C.sub.28 olefin product is especially useful for the production of biodegradable alkylbenzene

sulfonates detergents and intermediates therefor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 5 USPATFULL on STN
AN 92:38577 USPATFULL
TI Ionic phosphites used in homogeneous transition metal catalyzed processes
IN Abatjoglou, Anthony G., Charleston, WV, United States
Bryant, David R., South Charleston, WV, United States
PA Union Carbide Chemicals & Plastics Technology Corporation, Danbury, CT, United States (U.S. corporation)
PI US 5113022 19920512
AI US 1991-742012 19910808 (7)
RLI Continuation of Ser. No. US 1988-228507, filed on 5 Aug 1988, now patented, Pat. No. US 5059710
DT Utility
FS Granted
EXNAM Primary Examiner: Daus, Donald G.
LREP Finnegan, Reynold J.
CLMN Number of Claims: 14
ECL Exemplary Claim: 2
DRWN No Drawings
LN.CNT 1689

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to novel ionic phosphites and the use thereof as ligands in homogenous transition metal catalyzed processes, especially hydroformylation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 5 USPATFULL on STN
AN 91:86850 USPATFULL
TI Ionic phosphites and their use in homogeneous transition metal catalyzed processes
IN Abatjoglou, Anthony G., Charleston, WV, United States
Bryant, David R., South Charleston, WV, United States
PA Union Carbide Chemicals and Plastics Technology Corporation, Danbury, CT, United States (U.S. corporation)
PI US 5059710 19911022
AI US 1988-228507 19880805 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Daus, Donald G.
LREP Finnegan, Reynold J.
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1683

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to novel ionic phosphites and the use thereof as ligands in homogenous transition metal catalyzed processes, especially hydroformylation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L12 ANSWER 5 OF 12 USPATFULL on STN
AN 1998:31183 USPATFULL
TI Coproduction of vinylidene **alcohols** and vinylidene hydrocarbons
IN Lin, Kaung-Far, Baton Rouge, LA, United States
PA Albemarle Corporation, Richmond, VA, United States (U.S. corporation)
PI US 5731480 19980324
AI US 1995-552638 19951103 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Ivy, C. Warren; Assistant Examiner: Dahlen, Garth M.
LREP Pippenger, Philip M.
CLMN Number of Claims: 30
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 605

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is described for coproducing vinylidene **alcohol** and vinylidene olefin. The process involves **dimerizing** one or more vinylolefins with an alkyl aluminum catalyst to form a first product **mixture** comprising at least vinylidene olefin and alkyl aluminum compound. The vinylidene olefin is then reacted with the alkyl aluminum compound under displacement conditions to form 1-olefin while concurrently removing the 1-olefin from the displacement reaction **mixture** to form a second product **mixture** comprising at least beta-branched alkyl aluminum compound. The second product **mixture** is treated with air or oxygen under mild oxidation conditions to form a third product **mixture** comprising at least beta-branched aluminum alkoxide. The beta-branched aluminum alkoxide is then hydrolyzed to form vinylidene **alcohol**. The process makes effective use of the alkyl aluminum catalyst both as a catalyst and as a reactant, and requires only a relatively small amount of reaction equipment.

L12 ANSWER 6 OF 12 USPATFULL on STN
AN 90:83598 USPATFULL
TI Process for preparing **linear** alpha-olefins using zirconium
adducts as catalysts
IN Young, David A., Baton Rouge, LA, United States
Jones, Larry O., Baton Rouge, LA, United States
Campione, Troy J., Baton Rouge, LA, United States
PA Exxon Chemical Patents Inc., Linden, NJ, United States (U.S.
corporation)
PI US 4966874 19901030
AI US 1989-325878 19890320 (7)
RLI Division of Ser. No. US 1988-195665, filed on 18 May 1988, now patented,
Pat. No. US 4855525, issued on 8 Aug 1989 which is a
continuation-in-part of Ser. No. US 1987-63662, filed on 19 Jun 1987,
now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Garvin, Patrick P.
LREP Mahon, J. J.
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 594

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Linear** alpha-olefins are prepared by the oligomerization of
ethylene using a two component catalyst system comprising (a) a soluble
adduct of zirconium tetrahalide, the halogen being Br or Cl, with an
organic compound selected from the group of esters, ketones, ethers,
amines, nitriles, anhydrides, acid chlorides, amides or aldehydes, the
organic compound having up to about 30 carbon atoms and (b) an alkyl
metal selected from the group R.sub.2 AlX. RAlX.sub.2, R.sub.3 Al.sub.2
X.sub.3, R.sub.3 Al and R.sub.2 Zn where R is C.sub.1 -C.sub.20 alkyl
and X is Cl or Br. ZrCl.sub.4 adducts with organic acetates are the
preferred embodiments.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d l12 bib abs 7-12

L12 ANSWER 7 OF 12 USPATFULL on STN
AN 89:65318 USPATFULL
TI Process for preparing **linear** alpha-olefins using zirconium
adducts as catalysts
IN Young, David A., Baton Rouge, LA, United States
Jones, Larry O., Baton Rouge, LA, United States
Campione, Troy J., Baton Rouge, LA, United States
PA Exxon Chemical Patents-Inc., Linden, NJ, United States (U.S.
corporation)
PI US 4855525 19890808
AI US 1988-195665 19880518 (7)
RLI Continuation-in-part of Ser. No. US 1987-63662, filed on 19 Jun 1987,
now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Pal, Asok
LREP Mahon, J. J.
CLMN Number of Claims: 28
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 694

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Linear** alpha-olefins are prepared by the oligomerization of

ethylene using a two component catalyst system comprising (a) a soluble adduct of zirconium tetrahalide, the halogen being Br or Cl, with an organic compound selected from the group of esters, ketones, ethers, amines, nitriles, anhydrides, acid chlorides, amides or aldehydes, the organic compound having up to about 30 carbon atoms and (b) an alkyl metal selected from the group $R_{2}AlX$, $RAlX_{2}$, $R_{3}Al_{2}X_{3}$, $R_{3}Al$ and $R_{2}Zn$ where R is $C_{1}-C_{20}$ alkyl and X is Cl or Br. $ZrCl_{4}$ adducts with organic acetates are the preferred embodiments.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

22 ANSWER 21 OF 23 USPATFULL on STN
AN 86:38384 USPATFULL
TI Detergent range aldehyde and **alcohol mixtures** and derivatives, and process therefor
IN Forster, Denis, St. Louis, MO, United States
Schaefer, George F., Olivette, MO, United States
Barker, George E., St. Louis, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 4598162 19860701
AI US 1983-549524 19831104 (6)
RLI Continuation-in-part of Ser. No. US 1983-499967, filed on 1 Jun 1983, now abandoned And a continuation-in-part of Ser. No. US 1981-272587, filed on 11 Jun 1981, now patented, Pat. No. US 4426542 which is a continuation-in-part of Ser. No. US 1981-256439, filed on 22 Apr 1981, now abandoned which is a continuation of Ser. No. US 1979-104517, filed on 17 Dec 1979, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Lone, Werren B.
LREP Kennedy, Joseph D., Williams, Jr., James W.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 2365

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel, liquid **mixtures** of isomeric aldehydes and **alcohols** are described in the C.sub.11 -C.sub.16 carbon range, the compounds being characterized by a main carbon branched at the position and moderate additional branching in most isomers; the aldehyde **mixtures** are prepared by an economic route from **olefins** involving oxo and aldol reaction with the reaction conducted in such a way as to give a high percentage of aldolable product, and preferably with a base catalyzed aldol reaction conducted under conditions to make high conversions attainable. The aldehyde **mixtures** can be hydrogenated to **alcohols** and converted to novel ethoxylates or sulfate compositions suitable for use as biodegradable detergents; or hydrogenated and oxidized to novel carboxylic acid compositions also suitable for detergent use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 22 OF 23 USPATFULL on STN
AN 85:30136 USPATFULL
TI Preparation of pentyl nonanols
IN Forster, Denis, St. Louis, MO, United States
Schaefer, George F., Olivette, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 4518809 19850521
AI US 1983-499967 19830601 (6)
RLI Continuation-in-part of Ser. No. US 1981-272587, filed on 11 Jun 1981, now patented, Pat. No. US 4426542 which is a continuation-in-part of Ser. No. US 1981-256439, filed on 22 Apr 1981, now abandoned which is a continuation of Ser. No. US 1979-104517, filed on 17 Dec 1979, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Lone, Werren B.
LREP Kennedy, Joseph D., Williams, Jr., James W.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 1419

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel, liquid **mixture** of C.sub.14 isomeric **alcohols**

is described which is suitable for use in forming effective and biodegradable detergents, the **alcohols** being characterized by a 5-carbon branch at the 2-position and moderate additional branching in most isomers; the **alcohols** are prepared by a novel economic route from propylene **dimer**, involving oxo, aldol and hydrogenation reactions with the oxo reaction conducted in such a way as to give a high percentage of aldolable product and preferably with a base-catalyzed aldol reaction conducted under particular conditions to make high conversions attainable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L22 ANSWER 23 OF 23 USPATFULL on STN
AN 84:3343 USPATFULL
TI Synthesis of plasticizer and detergent **alcohols**
IN Barker, George E., St. Louis, MO, United States
Forster, Denis, St. Louis, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 4426542 19840117
AI US 1981-272587 19810611 (6)
RLI Continuation-in-part of Ser. No. US 1981-256439, filed on 22 Apr 1981, now Defensive Publication No. which is a continuation of Ser. No. US 1979-104517, filed on 17 Dec 1979, now Defensive Publication No.
DT Utility
FS Granted
EXNAM Primary Examiner: Lone, Werren B.
LREP Kennedy, Joseph D., Williams, Jr., James W.
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1175

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A preparation of a plasticizer **alcohol**, consisting of predominantly 2-propylheptanol, from linear butenes is described in which oxo product of the butenes is aldolized to condense n-pentaldehyde therein with very little cross-aldolization followed by hydrogenation to obtain the 2-propylheptanol with very small 2-propyl-4-methyl hexanol content. The **alcohol** product as phthalate ester has excellent plasticizer properties. Also processes are described for converting other **olefins** to **alcohols** by oxo, aldol and hydrogenation reactions, with particular attention to converting hexenes obtained by propylene **dimerization** to C.sub.14 **alcohols** suitable for preparation of detergents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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